

A Free Publication of the Wyoming Game & Fish Department

Wildlife Profiles ...... 3 Around Wyoming ...... 6

Winter 2004

### THE HABITAT CONNECTION: REPTILES AND AMPHIBIANS

## **CREEPY CRAWLERS**



Outdoor Classroom ...... 7

Test Your Knowledge ..... 8

Learning Links ..... 8

## FIELD Wildlife Journal

Bill Turner will never get bored being a herpetologist, a person who studies reptiles and amphibians. That's because there are so many different types to study, from crocodiles to tadpoles. That's why he became a herpetologist with the Wyoming Game and Fish Department. While there are no large reptiles like crocodiles in Wyoming, there are lots of others, like toads and frogs. Some of them, like the Wyoming toad, are endangered and especially need Bill's help.

Bill says one of the reasons amphibians are important is because they are sensitive to changes in the environment (such as air or water pollution), and often are one of the first indicators that something is wrong. As they disappear, biologists know there's something different about the air or water.

In the spring, Bill spends a lot of time looking for reptiles and amphibian tadpoles in wetlands. He identifies which type of tadpole he is looking at by its mouth parts. He also looks for adults along the shoreline. Once he finds them, he measures how much they weigh and the environment in which they are living, factors like temperature, humidity and wind speed. If it's a cold, windy day, reptiles and amphibians are less likely to be found.

At night, Bill listens for their calls, and maps out where he finds them by GPS (global positioning system) satellite technology. If you like frogs and toads and other reptiles and amphibians and want to be a herpetologist like Bill, you should check into getting a college degree in vertebrate zoology. That's what Bill and most other herpetologists have.

Handling rattlesnakes is for experts.

A herpetologist examines a lizard.

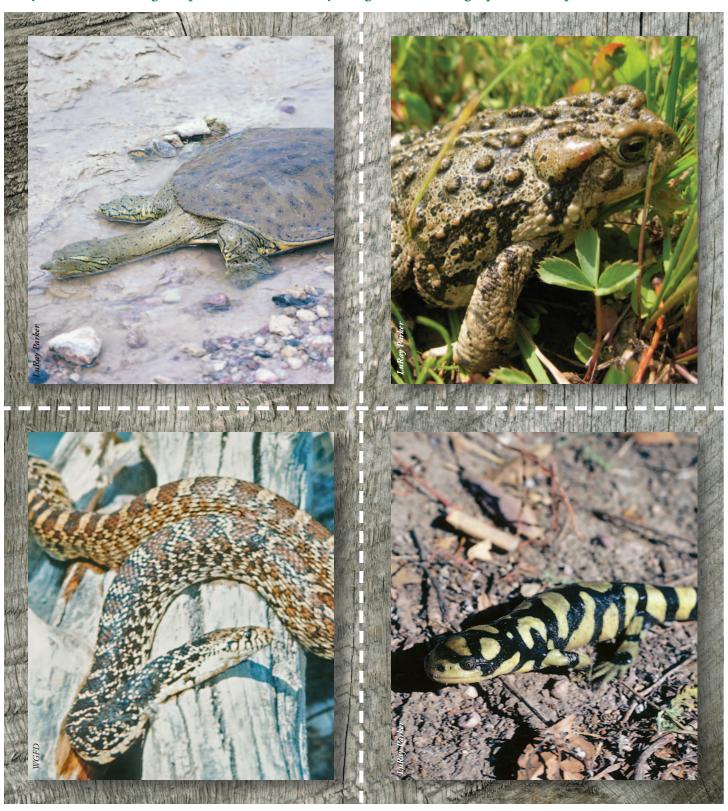
Rattlers inject venom through sharp fangs.

Toads do not cause warts, but poisons in their lumpy skin glands help protect them from predators.

Wyoming Wildlife's Wild Times

## WILLIORIE EFRICATIONS

A playful fox pup, a graceful swan in the water—people often describe mammals and birds as cute or beautiful. Reptiles and amphibians often are described with terms like "icky" and "slimy". Actually, these animals can be beautiful, too. Study the flashcards and get acquainted with four of Wyoming's more charming reptiles and amphibians.



## WILDLIFT PROFILIS

**Continued from Page 3** 

### **BOREAL TOAD**

This warty fellow likes high altitudes. The boreal toad lives in ponds and soggy meadows in Wyoming's mountains. You can recognize it by the white or yellow stripe that runs down its back. The boreal toad is a slow-moving creature. It jumps like a frog but it doesn't jump very far. The boreal toad is out both during the day and at night, hunting for insects. As soon as things warm up a bit in spring, the boreal toad comes out to breed. It hibernates in winter.

### **SOFT-SHELLED TURTLE**

Most turtles have hard shells, but the soft-shelled turtle, like its name suggests, has a flexible shell that feels like leather or plastic. These turtles live in lakes and rivers in eastern Wyoming. They like to come out of the water to sun themselves on sandy banks. But they always are watching for danger. When frightened, they move like lightning and scramble back into the water. Soft-shelled turtles grow large. Their shells may be 1 1/2 feet long; they also have long necks. They are foul-tempered and bite viciously when captured.

### TIGER SALAMANDER

Salamanders look like lizards, but they are really amphibians with moist skins. The tiger salamander is Wyoming's only type of salamander. It comes in different color patterns. This predator eats other small water creatures. It moves very slowly and is often caught by pelicans, herons and other birds. The tiger salamander often migrates across land. When young, it breathes through gills like a fish. Adult salamanders usually lose the gills. Tiger salamanders sometimes live in underground burrows dug by small mammals.

### **BULLSNAKE**

The bullsnake can grow to 6 feet in length, making it Wyoming's biggest snake. It reaches this large size on a diet of rabbits, rats and gophers. It squeezes its prey to death. Bullsnakes also eat small birds and eggs. Bullsnakes are valuable because they kill a lot of unwanted rodents around farm buildings. If you corner a bullsnake, it does an imitation of a rattlesnake, coiling up and shaking its tail. It also will lunge at you. However, it does not have rattles on its tail, and its teeth are tiny and harmless.

# Wildlife Heritage

### **BITERS**

When the mountain men and pioneers were making their way across what is now Wyoming in the 1800s, a few were undoubtedly bitten by rattlesnakes. Without modern medical treatment, some of them probably died or suffered crippling injuries. The old method for treating snakebite was to make a cut between the puncture wounds and suck out the venom. Experts now say that is dangerous. The best thing to do is to stay calm and get medical help quickly.





The leopard frog is so called for its spots.

Toads are getting scarcer.

### **SCARCE AMPHIBIANS**

For more than ten years now, frogs, toads and salamanders have been dwindling in number. It's happening all over the world. In many ponds where there used to be thousands of amphibians, you can hardly find any now. Nobody knows exactly

why. Scientists have some ideas about it. They think our environment may be changing in ways we don't fully



# Around Wyoming



Chorus frogs

### **NOISEMAKERS**

One of the surest signs of spring in Wyoming is the calling of chorus frogs. These tiny frogs make a lot of noise and can be heard nearly a mile away if it is quiet outside. You can find them in roadside pools or small ponds. Singing is part of their breeding ritual. Next April and May, listen for chorus frogs on warm evenings.

The horned toad is our official state reptile. When frightened, it can squirt a thin stream of blood from its eyes.

### STATE REPTILE

The horned toad, a Wyoming native, is our official state reptile. It is not really a toad but a lizard. Horned toad is just a nickname for its official name: eastern short-horned lizard. Horned toads are especially fond of ants. When frightened, they can squirt a thin stream of blood from their eyes. These reptiles live all over Wyoming in prairies and sagebrush. They are one of the slowest moving lizards.

### WYOMING TOAD

Unlike horned toads, Wyoming toads are true amphibians. But, although they look like most other kinds of toads, they are very special animals. They live in a swampy area near Laramie and nowhere else in the world. So few Wyoming toads are left that they are now protected by law. Wyoming toads need water but they also like to dig burrows in loose soil.



Wyoming toad

# Outdoor Classroom



Frogs lay large masses of jelly-like eggs in water. The eggs hatch into young frogs, called tadpoles or polliwogs. They look like little fish with round heads. Next spring or early summer, look for tadpoles in ditches and ponds. As tadpoles develop, their tails begin to shrink and they grow legs.

For information on raising tadpoles, see this Web site: allaboutfrogs.org/info/tadpoles/

VERY OLD REPTILES

Dinosaurs were the biggest reptiles that ever lived. Wyoming had many kinds of dinosaurs. But that was millions of years ago. Visit the Geological

Museum on the University of Wyoming campus in Laramie to see what Wyoming reptiles looked like in the distant past. The museum is open every day except holidays, and it's free.

Tadpoles, above.

This young salamander will lose its gills when it becomes an adult.

## ►TEST YOUR KNOWLEDGE -

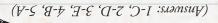
### **SLITHERY QUESTIONS**

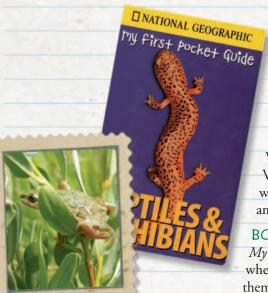
- 1. We see mammals and birds outside all winter—why not reptiles and amphibians?
- 2. Many lizards are very fast runners. Do you think it would be easier to catch one on a hot day or on a cool day? Why?

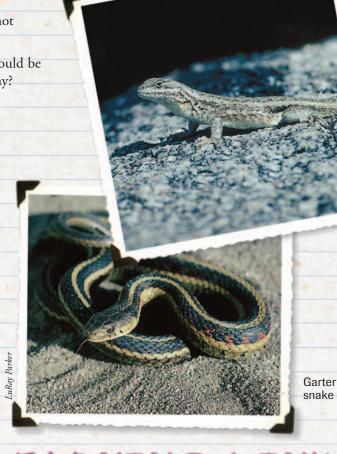
### **MATCHING**

Find the best match for each item in column A with one from column B.

COLUMN A	COLUMN B
1. herpetologist	A. horned toad
2. ancient reptile	B. young frog
3. rare and protected by law	C. reptile expert
4. tadpole	D.dinosaur
5. Wyoming's state reptile	E. Wyoming toad







## LEARNING LINKS

### WEB SITES:

Visit the Frogland web site at: allaboutfrogs.org
Visit the Wisconsin Department of Natural Resources Web site at:
www.dnr.state.wi.us/eek/ this will take you to a site loaded with reptiles and
amphibians. You can even listen to frogs singing.

### BOOKS:

My First Pocket Guide – Reptiles & Amphibians (National Geographic) shows where to find different kinds of reptiles and amphibians and how to identify them. Accompanying maps show where each occurs in the United States. Ask your librarian about this and other books on reptiles and amphibians.

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